

### **What Is Claimed Is:**

1. A pivoting mechanism for a link rod of an elliptical exerciser having a handle rod pivoted on a main body, a pair of handles disposed on top of the handle rod, a link rod positioned on bottom of the handle rod and movably  
5 coupled to a sliding rod with pedals, a driving mechanism mounted on the main body and linked to a shaft with one end connected with a crank, the crank being connected to one end of the sliding rod by a pivoting mechanism while the other end of the sliding rod is movable in a guiding slot on a sliding base, the pivoting mechanism comprising:
  - 10 a) a sleeve mounted on the crank with bearings disposed within the sleeve;
  - b) a projecting collar perpendicularly extended from one side of the sleeve, wherein the sliding rod has a mounting hole with a larger inner diameter than the outer diameter of the projecting collar such that a  
15 clearance is formed between the sliding rod and the projecting collar when the projecting collar is fitted in the sliding rod; and
  - c) a pivotal rod for pivoting the sliding rod and the projecting collar such that the projecting collar is movable rotatable with the sliding rod.
2. The pivoting mechanism for a link rod of an elliptical exerciser as  
20 claimed in claim1, wherein a plurality of elastic strips are positioned on the inner wall of the mounting hole of the sliding rod.
3. The pivoting mechanism for a link rod of an elliptical exerciser as claimed in claim1, wherein the mounting hole of the sliding rod has an elliptic cross-section.

4. The pivoting mechanism for a link rod of an elliptical exerciser as claimed in claim1, wherein the mounting hole of the sliding rod has an orthogonal cross-section.
5. The pivoting mechanism for a link rod of an elliptical exerciser as claimed in claim1, wherein the two sides of the projecting collar have an arched cross-section, and wherein the projecting collar is slightly rotatable about the pivotal rod.
6. The pivoting mechanism for a link rod of an elliptical exerciser as claimed in claim1, wherein the a projecting collar has a mounting hole with a larger inner diameter than the outer diameter of the sliding rod such that a clearance is formed between the sliding rod and the projecting collar when the sliding rod is fitted in the projecting collar.
7. The pivoting mechanism for a link rod of an elliptical exerciser as claimed in claim1, wherein the pivotal rod is a bolt.